

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problems Mailbox.**

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



J1017 U.S. PRO
10/042184
01/11/02

(43) International Publication Date
8 February 2001 (08.02.2001)

PCT

(10) International Publication Number
WO 01/08874 A1

(51) International Patent Classification⁷: B29D 30/24. (74) Agent: TANSINI, Elio, Fabrizio; Bognion S.p.A., Viale Lancetti, 17, I-20158 Milano (IT).

(21) International Application Number: PCT/EP00/05972

30/32

(22) International Filing Date: 27 June 2000 (27.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

99830497.6 30 July 1999 (30.07.1999) EP
60/155,129 22 September 1999 (22.09.1999) US

(71) Applicant (for all designated States except US): PIRELLI PNEUMATICI S.P.A. [IT/IT]; Viale Sarca, 222, I-20126 Milano (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SALA, Adamo [IT/IT]; Via Ugo Foscolo, 46, I-20041 Agrate Brianza (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

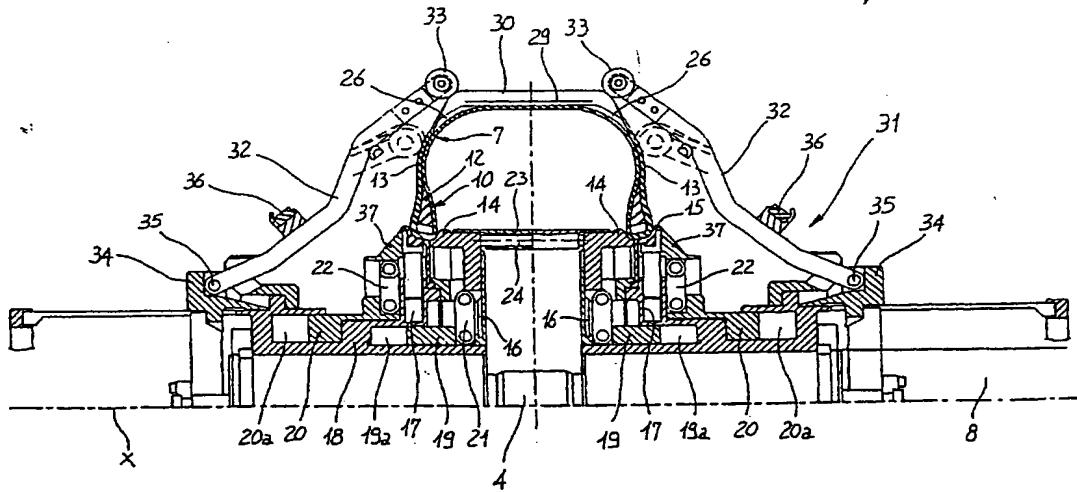
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TYRE ASSEMBLING APPARATUS



WO 01/08874 A1

(57) Abstract: A tyre assembling apparatus (2) made up of two halves (3a, 3b) axially movable close to each other, on which a carcass sleeve (7) of cylindrical conformation is fitted. Each half (3a, 3b) comprises radial sectors (5) each provided with a radially expandable holding member (14, 15) to engage the carcass sleeve (7) close to an annular anchoring structure (10). Supporting members (23) associated with the holding members (14, 15) define a cylindrical supporting surface for the carcass plies (9) extended in a cylindrical conformation, thereby making application of under-belt strips (26) easier. Turning-up devices (31) comprising circumferentially distributed levers (32) turn the side edges (7a, 7b) of the carcass sleeve (7) up around the annular anchoring structures (10), after the halves (3a, 3b) have been moved close to each other to give the carcass sleeve (7) a toroidal conformation and engage it to a belt package (29) provided with a tread band (30).